

# INTERNATIONAL SEARCH REPORT

GB2004/004306

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 A61K31/404 C07D209/08 C07D401/04 A61P31/12 A61K31/4439 C07D209/12 C07D417/06 C07D401/06 C07D403/06 C07D209/10 C07D209/14 C07D413/06		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07D		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, BEILSTEIN Data, CHEM ABS Data, WPI Data, PAJ		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/010140 A (BEAULIEU PIERRE LOUIS ; BOEHRINGER INGELHEIM CA LTD (CA); GILLARD JAME) 6 February 2003 (2003-02-06) cited in the application page 1, lines 3-5 page 12, line 1 - page 13, line 12 page 14, line 22 - page 15, line 10 example 8, particularly page 50, line 3	1-18
A	EP 1 162 196 A (JAPAN TOBACCO INC) 12 December 2001 (2001-12-12) cited in the application claims 1,31	1-18
----- -/--		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *Z* document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
16 December 2004		17/01/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer Seymour, L

## INTERNATIONAL SEARCH REPORT

'GB2004/004306

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 2004/065367 A (BEAULIEU PIERRE LOUIS ; CHABOT CATHERINE (CA); KAWAI STEPHEN (CA); JO) 5 August 2004 (2004-08-05) page 42, lines 1-18; claims 1,3,37,39-41,56,75 -----	1-18
X	VON ANGERER ET AL: "2-Phenylindoles. Effect of N-benzylolation on estrogen receptor affinity, estrogenic properties, and mammary tumor inhibiting activity" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 30, no. 1, 1987, pages 131-136, XP002115258 ISSN: 0022-2623 table I -----	1-6
X	TRAXLER P M ET AL: "4-(Phenylamino)pyrrolopyrimidines: Potent and selective, ATP site directed inhibitors of the EGF-receptor protein tyrosine kinase" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 39, no. 12, December 1996 (1996-12), pages 2285-2292, XP002053503 ISSN: 0022-2623 scheme 1, compound 7d -----	1,2,4-6
X	CHI S M ET AL: "Palladium-catalyzed functionalization of 5- and 7-azaindoles" TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 41, no. 6, February 2000 (2000-02), pages 919-922, XP004188522 ISSN: 0040-4039 table 1, entries 3 and 7; table 2, entry 1 -----	1-6
X	ZHANG H-C ET AL: "Efficient synthesis of 3-substituted 2-arylindoles via Suzuki coupling reactions on the solid phase" TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 42, no. 29, 16 July 2001 (2001-07-16), pages 4751-4754, XP004247343 ISSN: 0040-4039 table 1, entries 6 and 7 ----- -/--	1-6

## INTERNATIONAL SEARCH REPORT

GB2004/004306

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>ENGLER T A ET AL: "Lewis acid-controlled regioselectivity in reactions of styrenyl systems with benzoquinone monoimides: New regioselective syntheses of substituted 2-aryl-2,3-dihydrobenzofurans, 2-aryl-2,3-dihydroindoles, and 2-arylindoles"</p> <p>JOURNAL OF ORGANIC CHEMISTRY., vol. 61, no. 26, 1996, pages 9297-9308, XP002310918 USAMERICAN CHEMICAL SOCIETY. EASTON. scheme 4</p> <p>-----</p>	1-6

## INTERNATIONAL SEARCH REPORT

PCT/GB2004/004306

### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claim 15 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

GB2004/004306

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03010140	A	06-02-2003	BR 0211360 A	13-07-2004
			BR 0211477 A	17-08-2004
			WO 03010140 A2	06-02-2003
			WO 03010141 A2	06-02-2003
			CA 2449180 A1	06-02-2003
			CA 2450033 A1	06-02-2003
			EP 1414441 A2	06-05-2004
			EP 1414797 A2	06-05-2004
			HR 20040072 A2	30-06-2004
			HR 20040073 A2	30-06-2004
			US 2004024190 A1	05-02-2004
			US 2003176433 A1	18-09-2003
EP 1162196	A	12-12-2001	AU 763356 B2	17-07-2003
			AU 2401701 A	09-07-2001
			BR 0008525 A	02-01-2002
			CA 2363274 A1	05-07-2001
			EP 1162196 A1	12-12-2001
			HU 0202263 A2	28-12-2002
			NO 20014134 A	22-10-2001
			NZ 514403 A	25-10-2002
			SK 13752001 A3	02-07-2002
			US 2004097438 A1	20-05-2004
			US 2003050320 A1	13-03-2003
			CN 1342145 T	27-03-2002
			CZ 20013424 A3	13-02-2002
			ID 30204 A	15-11-2001
			WO 0147883 A1	05-07-2001
			JP 2001247550 A	11-09-2001
			RU 2223761 C2	20-02-2004
			TR 200103147 T1	21-06-2002
			ZA 200107870 A	25-09-2002
WO 2004065367	A	05-08-2004	WO 2004065367 A1	05-08-2004
			US 2004171626 A1	02-09-2004